

This Page Is Inserted by IFW Operations  
and is not a part of the Official Record

## **BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

**IMAGES ARE BEST AVAILABLE COPY.**

As rescanning documents *will not* correct images,  
please do not report the images to the  
Image Problem Mailbox.

100 mu = 36051 bp

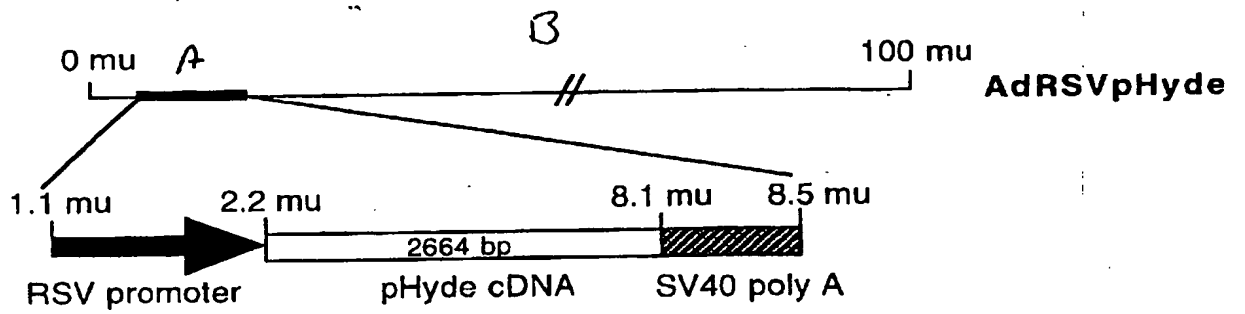


Fig. 1

66327-67600

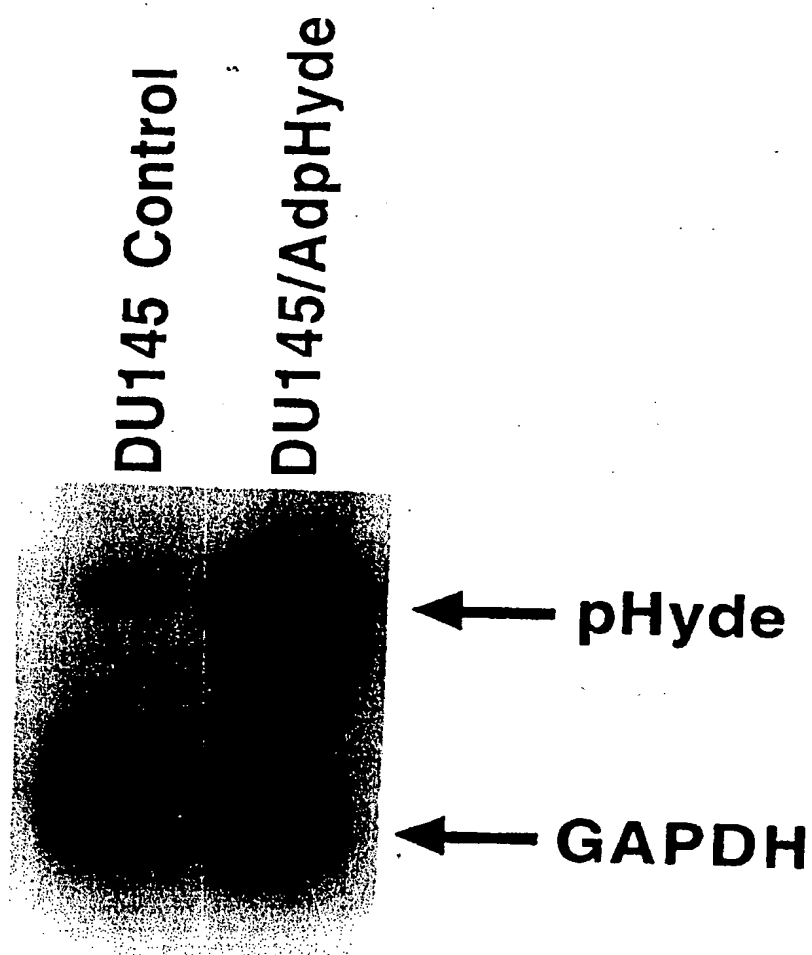


Fig. 2A

663677 27800000

**DU145 Control**

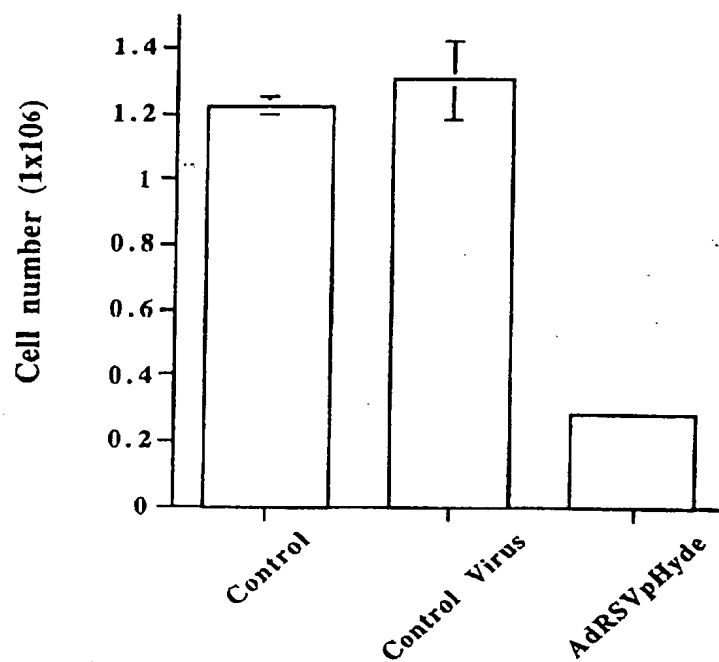
**DU145/AdRSVpHyde**



**← pHyde**

Fig. 2B

**A**



**B**

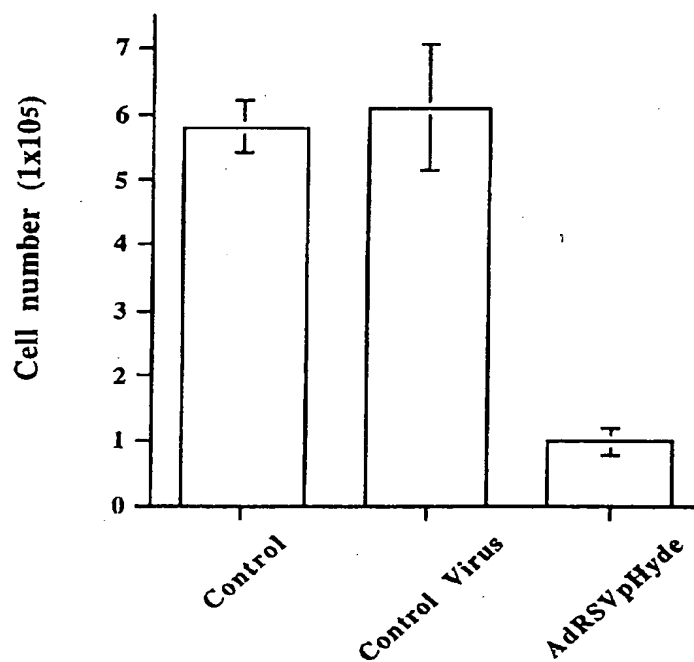


Fig.3

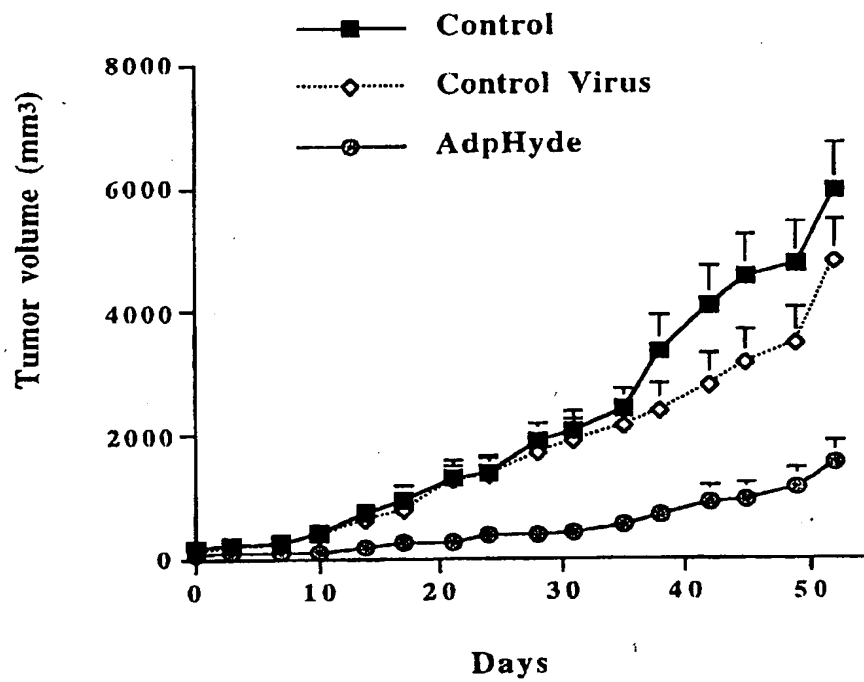
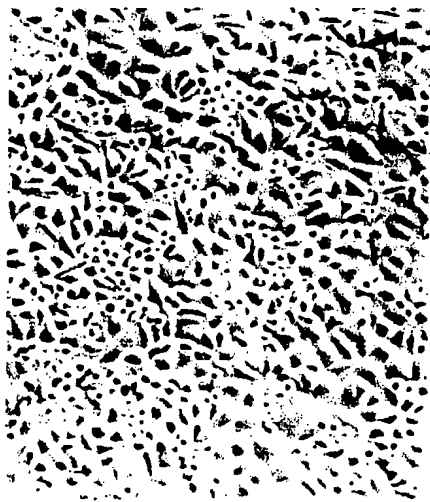


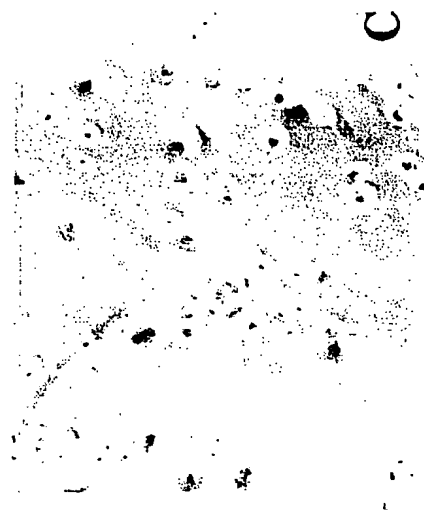
Fig. 4



DU145 Control



DU145/Control Virus



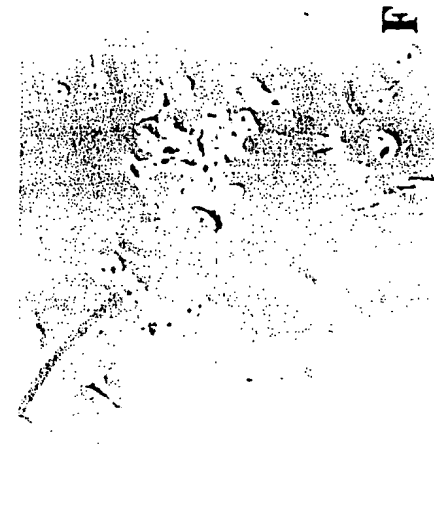
DU145/AdRSVpHyd



LNCaP Control

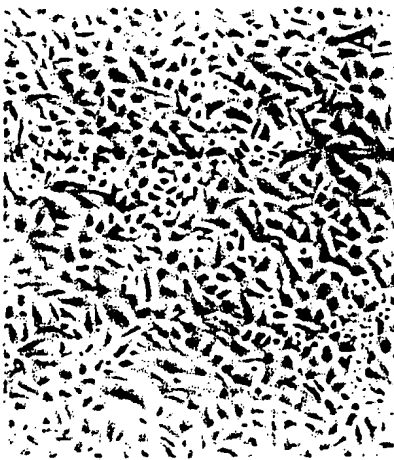


LNCaP/Control Virus

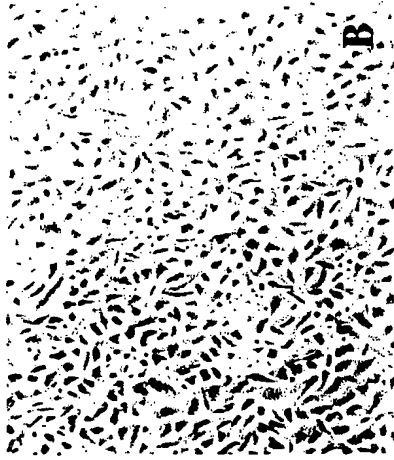


LNCaP/AdRSVpHyd

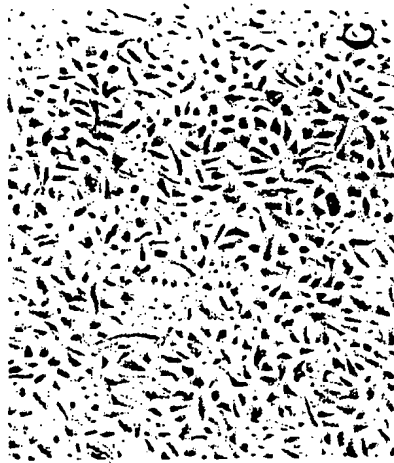
Fig. 5



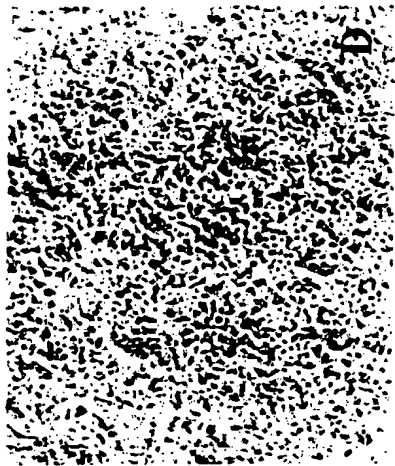
PC-3/Control



PC-3/Contro Virus



PC-3/AdRSVpHyde



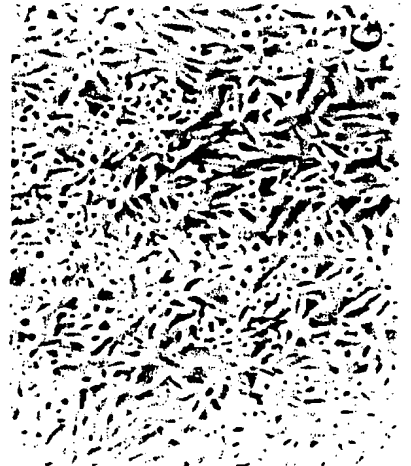
TSU/Control



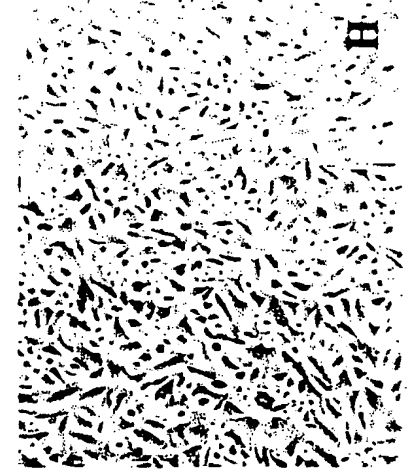
TSU/Contro Virus



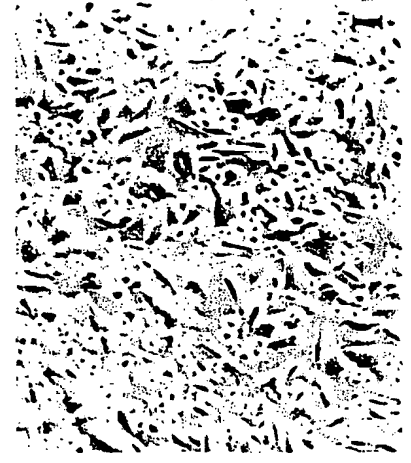
TSU/AdRSVpHyde



PPC-1/Control



PPC-1/Contro Virus



PPC-1/AdRSVpHyde

Figure 6

0949917-112599



66327-676460

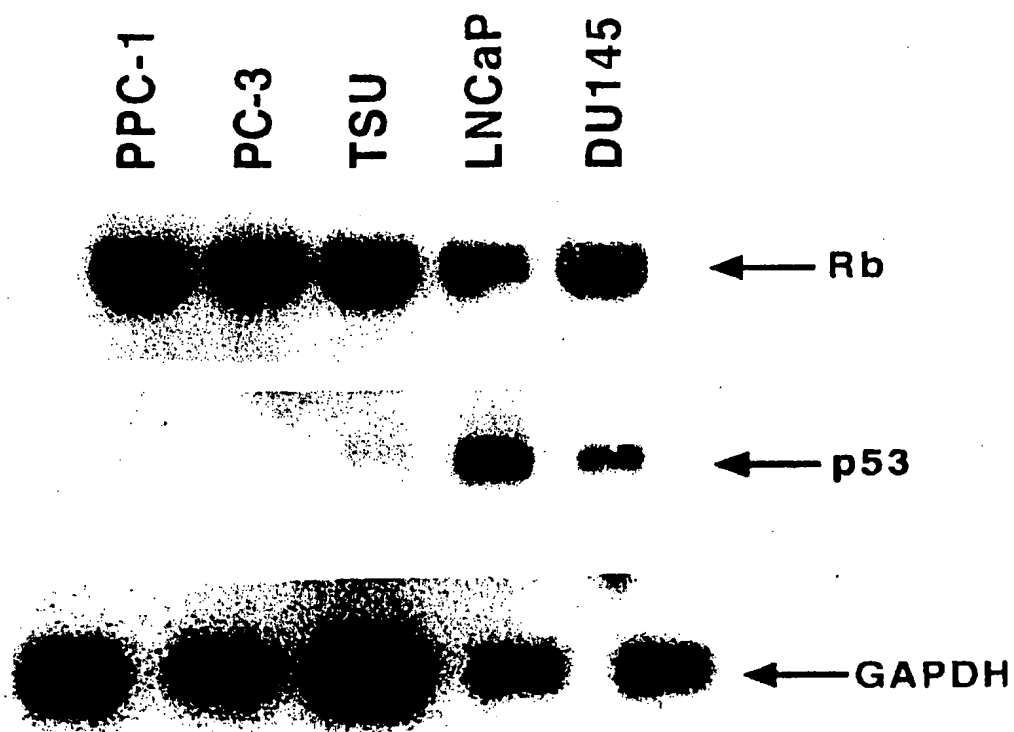


Fig. 7

66927-676000

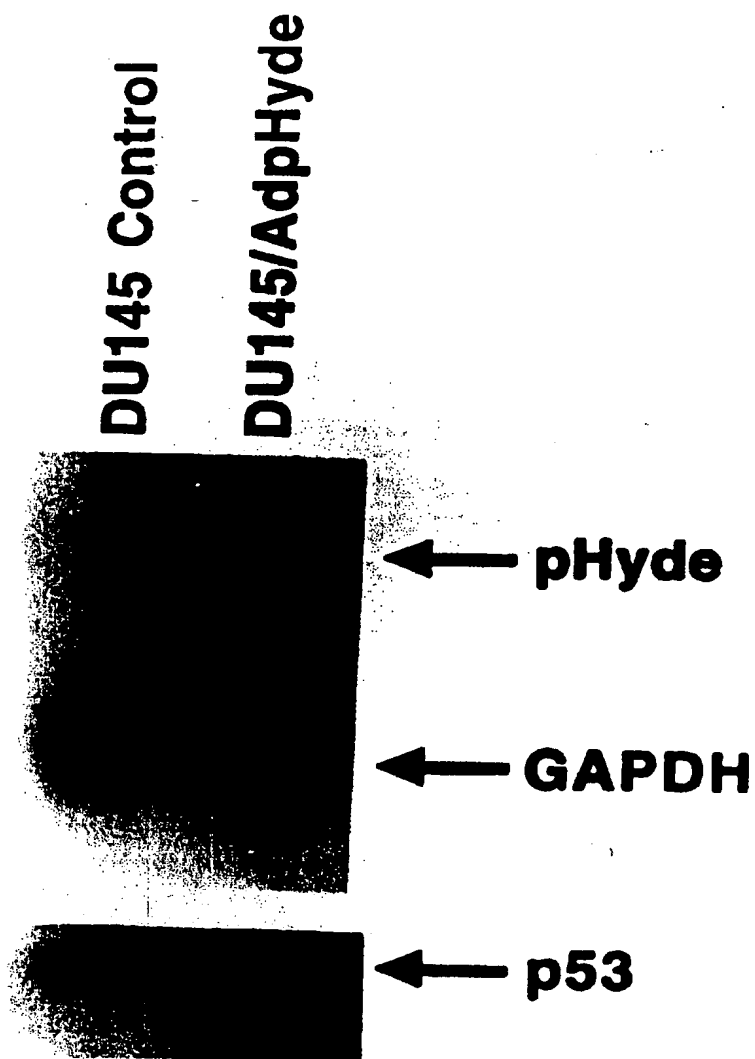


Fig. 8



Fig. 9

Sequence of Region A of AdRSVpHydc:

GCGGCCGCCATCATCAATAATATACCTTATTTTGGATTGAAG  
 CCAATATGATAATGAGGGGGTGGAGTTTGTGACGTGGC  
 GCGGGGCGTGGGAACGGGGCGGGTGACGTAGTAGTGTGGC  
 GGAAGTGTGATGTTGCAAGTGTGGCGGAACACATGTAAGC  
 GACGGATGTGGCAAAAGTGACGTTTTTGGTGTGCGCCGGTG  
 TACACAGGAAGTGACAATTTTCGCGCGGTTTTAGGCGGA  
 TGTGTAGTAAATTTGGGCGTAACCGAGTAAGATTTGGCCAT  
 TTTCGCGGGAAAACCTGAATAAGAGGAAGTGAAATCTGA  
 ATAATTTTGTGTTACTCATAGCGCGTAATATTTGTCTAGGGCC  
 GCGGGGACTTTGACCGTTTACGTGGAGACTCGCCAG  
 GGCGCGCCCCGATGTACGGGCCAGATATACGCGTATCTGAG  
 GGGACTAGGGTGTGTTTAGGCGAAAAGCGGGGCTTCGGT  
 TGTACGCGGTTAGGAGTCCCCTCAGGATATAGTAGTTTCGCT  
 TTTGCATAGGGAGGGGAAATGTAGTCTTATGCAATAC  
 TCTTGTAGTCTTGCAACATGGTAACGATGAGTTAGCAACATG  
 CCTTACAAGGAGAGAAAAAGCACCGTGCATGCCGATTG  
 GTGGAAGTAAGGTGGTACGATCGTGCCTTATTAGGAAGGCA  
 ACAGACGGGTCTGACATGGATTGGACGAACCACTGAATT  
 CCGCATTGCAGAGATATTGTATTTAAGTGCCTAGCTCGATAC  
 AATAAACGCCATTTGACCATTACCACATTGGTGTGCA  
 CCTCCGGCCCTGGCCACTCTCTTCCGCATCGCTGTCTGCGGG  
 GGCCAGCTGTTGGGCTCGCGGTTGAGGACAAACTCTTC  
 GCGGTCTTCCAGTACTCTTGATCGGAAACCCGTCGGCCTC  
 CGAACGGTACTCCGCCGCCGAGGGACCTGAGCGAGTCC  
 GCATCGACCGGATCGGAAAACCTCTCGAGAAAGGCGTGTA  
 CCAGTCACAGTCGCTCTAGAACTAGTGGATCCCCCGGGC  
 TGCAGGAATTCGATAATTTCGGCACGAGGCTGCCGAGGCACT  
 GTGATGTCCGGGGAGATGGACAAACCGCTCATCAGTCGC  
 CGTTGGTGGACAGTGATGGCAGTCTGGCTGAGGTCCCCAA  
 GGAGGCTCCCAAAGTGGGCATCCTGGGCAGCGGGGATT  
 TGCCCGGTCCCTGGCCACACGCCTGGTGGGCTCTGGCTTCT  
 TTGTGGTGGTGGGAAGCCGTAACCCCAAACGCACTGCCG  
 GCCTCTTCCCCTCCTTAGCCCAAGTGACTTTCAGGAGGAGG  
 CCGTGAGCTCTCCAGAGGTCATCTTTGTGGCCGTGTT  
 CGGGAGCACTACTCCTCACTGTGCAGTCTTGCTGACCAGTTG  
 GCTGGCAAGATCCTAGTGGATGTAAGCAACCCACGGA  
 GAAGGAGCGTCTTCAGCACCGCCAGTCGAACGCCGAGTACC  
 TGGCCTCCCTCTTCCCTGCCTGCACTGTGGTCAAGGCCT  
 TCAACGTCATCTCTGCATGGGCCCTACAGGCTGGCCCAAGG  
 GATGGGAACAGGCAGGTGCTCATCTGCGGTGACCACTG  
 GAAGCCAAGCACACCGTCTCAGAGATGGCGCGGCCATGG  
 GTTTCACCCCACTGGACATGGGATCCCTGGCCTCAGCGAG  
 GGAGGTAGAGGCCATACCCCTGCGCCTCCTTCCATCCTGGA  
 AGGTGCCCACCCTCCTGGCCCTGGGGCTAAGCACACAAA  
 GCTATGCCTACAACCTTCATCCGGGACGTTCTACAGCCGTACA  
 TCCGGAAAGATGAGAACAAGTTCTACAAGATGCCCTG  
 TCTGTGGTCAACACCACGaTACCCTGTGTGGCTTACGTGCTG  
 CTGTCCCTGGTTTACCTGCCTGGTGTGCTGGCAGCTGC  
 CCTTCAGCTGAGGAGGGGGACCAAGTACCAGCGCTTCCCAG  
 ACTGGCTGGACCATTGGCTGCAGCACCGCAAGCAGATCG  
 GGCTACTCAGCTTTTTTTTCGCCATGCTGCACGCTCTCTACAG  
 CTTCTGCCTGCCGCTGCGCCGCTCCACCGCTATGAT  
 CTGGTCAACCTGGCTGTGAAGCAGGTCCTGGCCAACAAGAG  
 CCGCCTCTGGGTTGAGGAAGAAGTCTGGCGGATGGAGAT

ATACCTGTCCCTGGGTGTGCTGGCTCTGGGCATGCTGTCACT  
 GCTGGCGGTTACCTCGATCCCTTCCATTGCAAACCTCAC  
 TCAACTGGAAGGAGTTCAGCTTTGTGCAGTCCACGCTGGGC  
 TTCGTGGCCCTGATGCTGAGCACAATGCACACCCTCACC  
 TACGGCTGGACCCGTGCTTTTGAGGAAAACCACTACAAGTTC  
 TACCTGCCACCCACATTACAGCTCACGCTGCTCCTGCC  
 CTGTGTCATCATCCTGGCCAAGGGCCTCTTCCTCCTGCCCTG  
 CCTCAGCCACAGACTACCAAGATCCGCAGGGGCTGGG  
 AGAGGGATGGTGCCGTCAAGTTCATGCTGCCCCGCTGGCCAC  
 ACACAGGGGGGAGAAAACAAGCCACGTGTGAGGCCCTGGA  
 AATGGAGACAGGCACAGCTTGTGGGGGGCCCTGGGCTGGGT  
 TCGGGTCTCTTTTCTGGGATGGTATATGCGTGGGTGGCCG  
 AGGTCTGAATTTCTGGGATGCGAGGTGTATGCCGAGATACTCA  
 GAATGGCGTACCACACATGCGATAAGTACTCACATATA  
 TTTCATATATAATAGGATTACTATTATTCTTAGTTAAAAAAA  
 ATAGTGGGTCTTATATTTCAACTTATGCAGGGTCC  
 CTATATTTCAACTTGAGCATTTTCAGAGCAAATGCCACACATTA  
 AACAGCAGATCCCACCCTTGTGGTAGCTGCAGAGACA  
 GACAGAAACTTCTGGTATGAGAGAGACTGTATTTTGTGGAT  
 TCTACCTTTAATCCCCGTTCTCTACGTTCCCTGTTA  
 GCCACATCTTAACGTTGGTGCAGAGCTGGGACAAGAGCTGG  
 CTCTGGTGCAGCCTCCCCCATCCCAGGGCTAGGAAACAA  
 GCCTCTGATGAACAGAGGGACCAGGTCTGGACCCTCCTGCT  
 CCCGCTTCCCTGGGCTCGAGTGGGGAGGCTCAGCGGGAT  
 CCCCCGCAATCTGTGCAGGAGTTTTCACAGGTCTGTCTTTTC  
 TTCCGGGAGCGGTCTGAAGCGGCCCATCTGATCCTAG  
 CTGAGCCGAGATTGTTCCCCACTCCCTGAAAGTCCAGAGTCA  
 CCGTGGAGCCTGCAAATTGCTCCTTCTGCGAAGGTGTG  
 AAGTCACCGTCTCACCAGAGCCATTAAACGAACCTGATCTTCA  
 GAAGAAGCATAATTGTTTCCCTCCATTAAAGTTGGTGG  
 TGACCCTCTTTAAACCACTGTGCCTTCTCGCCTTTCCCATCAC  
 TAATTTGGGCATCTCCATGGAGTGGACTCTTGTCGGG  
 GCAGTTCAGGGGGGAGGGAAGCATTAGAGATTGCGGAGAA  
 TAACCATCGAAGCCTCCCTTGGATGTTCCAGGCGTGCCT  
 TCATTAAATTGGTCCCTAATGAGAATGACAGGGGACCCCTGT  
 TGCCTGTATGCAGAGAACCAGCCTTCTGAGCACCCAGG  
 AAACACAGTGGCCCCACGCCCTTCAGGGGGGTCCACGTCC  
 CCTTTCCCATGCTTTTGCCTCCCTCCCTCCCGGTTACAA  
 TCAACCATAAAAGTCTGCAAATATTGTTTTTTGAATTATCAAG  
 CTTATCGATAACCGTCGAAACTTGTTTATTGCAGCTTA  
 TAATGGTTACAAATAAAGCAATAGCATCACAAATTTACAAAT  
 AAAGCATTTTTTCACTGCATTCTAGTTGTGGTTTGT  
 CCAAACATCAATGTATCTTATCATGTCTGGATCCGACCTCG  
 G

**Sequence of Region B of AdRSVpHyde:**

ATCTGGAAGGTGCTGAGGTACGATGAGACCCGCACCAGGTG  
 CAGACCCTGCGAGTGTGGCGGTAAACATATTAGGAACCA  
 GCCTGTGATGCTGGATGTGACCGAGGAGCTGAGGCCCCGATC  
 ACTTGGTGCTGGCCTGCACCCGCGCTGAGTTTGGCTCTA  
 GCGATGAAGATACAGATTGAGGTACTGAAATGTGTGGCGT  
 GGCTTAAGGGTGGGAAAGAATATATAAGGTGGGGGTCTT  
 ATGTAGTTTTGTATCTGTTTTGCAGCAGCCGCCGCCCATG  
 AGCACCAACTCGTTTGATGGAAGCATTGTGAGCTCATA

TTTGACAACGCGCATGCCCCATGGGCCGGGGTGCCTCAGA  
ATTGTGATGGGCTCCAGCATTTGATGGTCCGGCCCTGCTGC  
CCGCAAACCTCTACTACCTTGACCTACGAGACCGTGTCTGGAA  
CGCCGTTGGAGACTGCAGCCTCCGCCGCCGCTTCAGCC  
GCTGCAGCCACCGCCCGCGGGATTGTGACTGACTTTGCTTTC  
CTGAGCCCGCTTGCAAGCAGTGCAGCTTCCCGTTTCATC  
CGCCCGCGATGACAAGTTGACGGCTCTTTTGGCACAAATTGG  
ATTCTTTGACCCGGGAACCTTAATGTCGTTTCTCAGCAGC  
TGTTGGATCTGCGCCAGCAGGTTTCTGCCCTGAAGGCTTCCT  
CCCCTCCAATGCGGTTTAAACATAAAATAAAAAACCA  
GACTCTGTTTGGATTGGATCAAGCAAGTGTCTTGCTGTCTTT  
ATTTAGGGGCTTTTGCGCGCGCGGTAGGCCCGGACCA  
GCGGTCTCGGTGCTTGAGGGTCTGTGTATTTTTCAGGAC  
TGGTAAAGGTGACTCTGGATGTTTCAGATACATGGGCA  
TAAGCCCGTCTCTGGGGTGGAGGTAGCACCACTGCAGAGCT  
TCATGCTGCGGGGTGGTGTGTAGATGATCCAGTCGTAG  
CAGGAGCGCTGGGCGTGGTGCCTAAAAATGTCTTTCAGTAG  
CAAGCTGATTGCCAGGGGCAGGCCCTTGGTGTAAGTGTT  
TACAAAGCGGTAAAGCTGGGATGGGTGCATACGTGGGGATA  
TGAGATGCATCTTGGAAGTGTATTTTAGGTTGGCTATGT  
TCCCAGCCATATCCCTCCGGGGATTTCATGTTGTGCAGAACCA  
CCAGCACAGTGTATCCGGTGCACCTTGGGAAATTTGTCA  
TGTAAGCTTAGAAGGAAATGCGTGGAAGAACTTGGAGACGCC  
CTTGAGACCTCCAAGATTTCCATGCATTCGTCCATAAT  
GATGGCAATGGGCCACGGGCGGGCCTGGGCGAAGATA  
TTTCTGGGATCACTAACGTATAGTTGTCTCCAGGATGA  
GATCGTCAAGGCCATTTTACAAGCGCGGGCGGAGGGTG  
CCAGACTGCGGTATAATGGTTCCATCCGGGCCAGGGGCG  
TAGTTACCCTCACAGATTTGCATTTCCACGCTTTGAGTTCAG  
ATGGGGGGATCATGTCTACCTGCGGGGCGATGAAGAA  
AACGGTTTCCGGGGTAGGGGAGATCAGCTGGGAAGAAAGC  
AGGTTCTTGAGCAGCTGCGACTTACCGCAGCCGGTGGGCC  
CGTAAATCACACCTATTACCGGGTGCAACTGGTAGTTAAGAG  
AGCTGCAGCTGCCGTCATCCCTGAGCAGGGGGGCCACT  
TCGTTAAGCATGTCCCTGACTCGCATGTTTTCCCTGACCAAAT  
CCGCCAGAAGGCGCTCGCCGCCAGCGATAGCAGTTC  
TTGCAAGGAAGCAAAGTTTTTCAACGGTTTGAGACCGTCCGC  
CGTAGGCATGCTTTTGAGCGTTTGACCAAGCAGTTCCA  
GGCGGTCCCACAGCTCGGTACCTGCTCTACGGCATCTCGA  
TCCAGCATATCTCTCGTTTTCGCGGTTGGGGCGGCTT  
CGCTGTACGGCAGTAGTCCGTGCTCGTCCAGACGGGCCAGG  
GTCATGTCTTTCCACGGGCGCAGGGTCTCGTCAGCGTA  
GTCTGGGTACGGTGAAGGGGTGCGCTCCGGGCTGCGCGC  
TGGCCAGGGTGCGCTTGAGGCTGGTCTGCTGGTGCTGAA  
GCGCTGCCGGTCTTCGCCCTGCGCGTCGGCCAGGTAGCATT  
TGACCATGGTGTATAGTCCAGCCCTCCGCGGCGTGGC  
CCTTGGCGCGCAGCTTGCCCTTGAGAGGAGGCGCCGCACGA  
GGGGCAGTGCAGACTTTTGAGGGCGTAGAGCTTGGGCGCG  
AGAAATACCGATTCCGGGGAGTAGGCATCCGCGCCGCAGGC  
CCCGCAGACGGTCTCGCATTCACGAGCCAGGTGAGCTC  
TGGCCGTTCCGGGGTCAAAAACCAGGTTTCCCCCATGCTTTTT  
GATGCGTTTCTTACCTCTGGTTTCCATGAGCCGGTGT  
CACGCTCGGTGACGAAAAGGCTGTCCGTGTCCTCCGATACA  
CAGTTGAGAGGCTGTACCTCGAGCGGTGTTCCGCGGTCC  
TCCTCGTATAGAACTCGGACCACTCTGAGACAAAGGCTCGC  
GTCCAGGCCAGCACGAAGGAGGCTAAGTGGGAGGGGTA

GCGGTCGTTGTCCACTAGGGGGTCCACTCGCTCCAGGGTGT  
GAAGACACATGTCGCCCTCTTCGGCATCAAGGAAGGTGA  
TTGGTTTGTAGGTGTAGGCCACGTGACCGGGTGTTCCTGAA  
GGGGGGCTATAAAAGGGGGTGGGGGGCGGTTTCGTCCTCA  
CTCTCTTCCGCATCGCTGTCTGCGAGGGCCAGCTGTTGGGG  
TGAGTACTCCCTCTGAAAAGCGGGCATGACTTCTGCGCT  
AAGATTGTCAGTTTCCAAAAACGAGGAGGATTTGATATTCAC  
CTGGCCCGCGGTGATGCCTTTGAGGGTGGCCGCATCCA  
TCTGGTCAGAAAAGACAATCTTTTTGTTGTCAAGCTTGGTGG  
CAAACGACCCGTAGAGGGCGTTGGACAGCAACTTGGCG  
ATGGAGCGCAGGGTTTGGTTTTTGTGCGGATCGGCGCGCTC  
CTTGGCCGCGATGTTTAGCTGCACGTATTCGCGCGCAAC  
GCACCGCCATTCCGGAAAGACGGTGGTGGCTCGTCGGGGC  
ACCAGGTGCACGCGCCAACCGCGGTTGTGCAGGGTGACAA  
GGTCAACGCTGGTGGCTACCTCTCCGCGTAGGCGCTCGTTG  
GTCCAGCAGAGGCGGCCGCCCTTGCGCGAGCAGAATGGC  
GGTAGGGGGTCTAGCTGCGTCTCGTCCGGGGGGTCTGCGTC  
CACGGTAAAGACCCCGGGCAGCAGGCGCGCGTCGAAGTA  
GTCTATCTTGCATCCTTGCAAGTCTAGCGCCTGCTGCCATGC  
GCGGGCGGCAAGCGCGCGCTCGTATGGGTTGAGTGGGG  
GACCCCATGGCATGGGGTGGGTGAGCGCGGAGGCGTACAT  
GCCGCAAATGTCGTAAACGTAGAGGGGCTCTCTGAGTATT  
CCAAGATATGTAGGGTAGCATCTTCCACCGCGGATGCTGGC  
GCGCACGTAATCGTATAGTTCGTGCGAGGGAGCGAGGAG  
GTCGGGACCGAGGTTGCTACGGGCGGGCTGCTCTGCTCGG  
AAGACTATCTGCCTGAAGATGGCATGTGAGTTGGATGATA  
TGGTTGGACGCTGGAAGACGTTGAAGCTGGCGTCTGTGAGA  
CCTACCGCGTCACGCACGAAGGAGGCGTAGGAGTCGCGC  
AGCTTGTGACCAGCTCGGCGGTGACCTGCACGTCTAGGGC  
GCAGTAGTCCAGGGTTTCTTGTATGATGTCATACTTATC  
CTGTCCCTTTTTTTTCCACAGCTCGCGGTTGAGGACAAACTCT  
TCGCGGTCTTTCCAGTACTCTTGGATCGGAAACCCGT  
CGGCCTCCGAACGGTAAGAGCCTAGCATGTAGAACTGGTTG  
ACGGCCTGGTAGGCGCAGCATCCCTTTTCTACGGGTAGC  
GCGTATGCCTGCGCGGCCCTTCCGGAGCGAGGTGTGGGTGA  
GCGCAAAGGTGTCCCTGACCATGACTTTGAGGTACTGGTA  
TTTGAAGTCAGTGTGTCGTCGCATCCGCCCTGCTCCCAGAGCAA  
AAAGTCCGTGCGCTTTTTTGAACGCGGATTTGGCAGGG  
CGAAGGTGACATCGTTGAAGAGTATCTTTCCCGCGCGAGGC  
ATAAAGTTGCGTGTGATGCGGAAGGGTCCCGGCACCTCG  
GAACGGTTGTTAATTACCTGGGCGCGAGCACGATCTCGTC  
AAAGCCGTTGATGTTGTGGCCACAATGTAAAGTTCCAA  
GAAGCGCGGGATGCCCTTGATGGAAGGCAATTTTTTAAGTTC  
CTCGTAGGTGAGCTCTTACGGGGAGCTGAGCCCGTGCT  
CTGAAAGGGCCCAGTCTGCAAGATGAGGGTTGGAAGCGAC  
GAATGAGCTCCACAGGTACCGGGCCATTAGCATTTGCAGG  
TGGTCGCGAAAGGTCCTAAACTGGCGACCTATGGCCATTTT  
TCTGGGGTGTGAGTAGAAGGTAAGCGGGTCTTGTT  
CCAGCGGTCCCATCCAAGGTTTCGCGGCTAGGTCTCGCGCGG  
CAGTCACTAGAGGCTCATCTCCGCCGAACCTTCATGACCA  
GCATGAAGGGCACGAGCTGCTTCCCAAAGGCCCCCATCCAA  
GTATAGGTCTCTACATCGTAGGTGACAAAGAGACGCTCG  
GTGCGAGGATGCGAGCCGATCGGGAAGAACTGGATCTCCC  
GCCACCAATTGGAGGAGTGCTATTGATGTGGTGAAAGTA  
GAAGTCCCTGCGACGGGCCGAACACTCGTGCTGGCTTTTGT  
AAAAACGTGCGCAGTACTGGCAGCGGTGCACGGGCTGTA

	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2
--	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	---

5

1. *Journal of the American Medical Association*, 1997; 277: 1039-1043.



GGTAGAGGGGCCAGCGTAGGGTGGCCGGGGCTCCGGGG  
CGAGATCTTCCAACATAAGGCGATGATATCCGTAGATGTAC  
CTGGACATCCAGGTGATGCCGGCGGGCGGTGGTGGAGGCGC  
GCGGAAAGTCGCGGACGCGGTTCCAGATGTTGCGCAGCGG  
CAAAAAGTGCTCCATGGTCGGGACGCTCTGGCCGGTCAGGC  
GCGCGCAATCGTTGACGCTCTACCGTGCAAAAGGAGAGC  
CTGTAAGCGGGCACTCTTCCGTGGTCTGGTGGATAAATTCGC  
AAGGGTATCATGGCGGACGACCGGGGTTTCGAGCCCCGT  
ATCCGGCCGTCCGGCCGTGATCCATGCGGTTACCGCCCCGCT  
GTCGAACCCAGGTGTGCGACGTCAGACAACGGGGGAGTG  
CTCCTTTTGGCTTCCCTCCAGGCGCGGCGGCTGCTGCGCTAG  
CTTTTTTGGCCACTGGCCGCGCGCAGCGTAAGCGGTTA  
GGCTGGAAGCGAAAGCATTAAAGTGGCTCGCTCCCTGTAGC  
CGGAGGTTATTTTCCAAGGGTTGAGTCGCGGGACCCCC  
GGTTCGAGTCTCGGACCGGCCGGAAGTGGCGGAACGGGGG  
TTTGCCTCCCCGTGATGCAAGACCCCGCTTGCAAATTCCT  
CCGGAAACAGGGACGAGCCCCCTTTTTTGGCTTTTCCCAGATGC  
ATCCGGTGCTGCGGCAGATGCGCCCCCTCCTCAGCAG  
CGGCAAGAGCAAGAGCAGCGGCAGACATGCAGGGCACCCCT  
CCCCTCCTCCTACCGCGTCAGGAGGGGGCGACATCCGCGGT  
TGACGCGGCAGCAGATGGTGATTACGAACCCCCGCGGCGCC  
GGGCCCCGGCACTACCTGGACTTGGAGGAGGGCGAGGGCC  
TGGCGCGGCTAGGAGCGCCCTCTCCTGAGCGGTACCCAAGG  
GTGCAGCTGAAGCGTGATACGCGTGAGGCGTACGTGCCG  
CGGCAGAACCTGTTTCGCGACCGCGAGGGAGAGGAGCCCC  
AGGAGATGCGGGATCGAAAGTTCCACGCAGGGCGCGAGCT  
GCGGCATGGCCTGAATCGCGAGCGGTTGCTGCGCGAGGAG  
GACTTTGAGTCCGACGCGCAACCGGGATTAGTCCCGCGC  
GCGCACACGTGGCGGCCCGGACCTGGTAACCGCATACGA  
GCAGACGGTGAACCAGGAGATTAACTTTCAAAAAGCTTT  
AACAAACCACGTGCGTACGCTTGTGGCGCGCGAGGAGGTGG  
CTATAGGACTGATGCATCTGTGGGACTTTGTAAGCGCGCT  
GGAGCAAAACCCAAATAGCAAGCCGCTCATGGCGCAGCTGT  
TCCTTATAGTGACGACAGCAGGGACAACGAGGCATTCA  
GGGATGCGCTGCTAAACATAGTAGAGCCCGAGGGCCGCTG  
GCTGCTCGATTGATAAACATCCTGCAGAGCATAGTGGTG  
CAGGAGCGCAGCTTGAGCCTGGCTGACAAGGTGGCCGCCAT  
CAACTATTCCATGCTTAGCCTGGGCAAGTTTTACGCCCG  
CAAGATATACCATACCCCTTACGTTCCCATAGACAAGGAGGT  
AAAGATCGAGGGGTTCTACATGCGCATGGCGCTGAAGG  
TGCTTACCTTGAGCGACGACCTGGGCGTTTATCGCAACGAG  
CGCATCCACAAGGCCGTGAGCGTGAGCCGGCGGCGCGAG  
CTCAGCGACCGCGAGCTGATGCACAGCCTGCAAAGGGCCCT  
GGCTGGCACGGGCAGCGGCGATAGAGAGGCGGAGTCCTA  
CTTTGACGCGGGCGCTGACCTGCGCTGGGCCCCAAGCCGAC  
GCGCCCTGGAGGCAGCTGGGGCCGGACCTGGGCTGGCGG  
TGGCACCCGCGCGCGCTGGCAACGTCGGCGGCGTGGAGGA  
ATATGACGAGGACGATGAGTACGAGCCAGAGGACGGCGAG  
TACTAAGCGGTGATGTTTCTGATCAGATGATGCAAGACGCAA  
CGGACCCGGCGGTGCGGGCGGCGCTGCAGAGCCAGCCG  
TCCGGCCTTAACTCCACGGACGACTGGCGCCAGGTCATGGA  
CCGCATCATGTGCTGACTGCGCGCAATCCTGACGCGTT  
CCGGCAGCAGCGCAGGCCAACCGGCTCTCCGCAATTCTGG  
AAGCGGTGGTCCCGCGCGCAAAACCCACGCACGAGA  
AGGTGCTGGCGATCGTAAACGCGCTGGCCGAAAACAGGGC  
CATCCGGCCCCGACGAGGCCGGCCTGGTCTACGACGCGCTG

00110947.42600

CTTCAGCGCGTGGCTCGTTACAACAGCGGCAACGTGCAGAC  
CAACCTGGACCGGCTGGTGGGGGATGTGCGCGAGGCCGT  
GGCGCAGCGTGAGCGCGCAGCAGCAGGGCAACCTGGGC  
TCCATGGTTGCACTAAACGCCTTCCTGAGTACACAGCCCG  
CCAACGTGCGCGGGGACAGGAGGACTACACCAACTTTGTG  
AGCGCACTGCGGCTAATGGTGACTGAGACACCGCAAAGT  
GAGGTGTACCAGTCTGGGCCAGACTATTTTTTCCAGACCAGT  
AGACAAGGCCTGCAGACCGTAAACCTGAGCCAGGCTTT  
CAAAAACCTGCGAGGGGCTGTGGGGGGGTGCGGGGCTCCCACA  
GGCGACCGCGCGACCGTGTCTAGCTTGCTGACGCCCAACT  
CGCGCCTGTTGCTGCTGCTAATAGCGCCCTTCACGGACAGT  
GGCAGCGTGTCCCGGGACACATACCTAGGTCACCTTGCTG  
ACACTGTACCGCGAGGCCATAGGTCAGGCGCATGTGGACGA  
GCATACTTTCCAGGAGATTACAAGTGTGAGCCGCGCGCT  
GGGGCAGGAGGACACGGGCAGCCTGGAGGCAACCCTAAAC  
TACCTGCTGACCAACCGGCGGCAGAAAGATCCCCTCGTTGC  
ACAGTTTAAACAGCGAGGAGGAGCGCATTTTTCGCTACGTG  
CAGCAGAGCGTGAGCCTTAACCTGATGCGCGACGGGGTA  
ACGCCCAGCGTGGCGCTGGACATGACCGCGCGCAACATGG  
AACCGGGCATGTATGCCTCAAACCGGCCGTTTATCAACCG  
CCTAATGGACTACTTGCATCGCGCGGCCCGCGTGAACCCCG  
AGTATTTACCAATGCCATCTTGAACCCGCACTGGCTAC  
CGCCCCCTGGTTTCTACACCGGGGGATTTCGAGGTGCCCGAG  
GGTAACGATGGATTCTCTGGGACGACATAGACGACAGC  
GTGTTTTCCCGCAACCGCAGACCCTGCTAGAGTTGCAACAG  
CGCGAGCAGGCAGAGGCGGCGCTGCGAAAGGAAAGCTT  
CCGCAGGCCAAGCAGCTTGTCCGATCTAGGCGCTGCGGCCC  
CGCGGTGAGATGCTAGTAGCCCATTTCCAAGCTTGATAG  
GGTCTCTTACCAGCACTCGCACCAACCCGCGCGCCTGCTG  
GGCGAGGAGGAGTACCTAAACAACCTCGCTGCTGCAGCCG  
CAGCGCGAAAAAAACCTCGCTCCGGCATTTCCCAACAACGG  
GATAGAGAGCCTAGTGGACAAGATGAGTAGATGGAAGAC  
GTACGCGCAGGAGCACAGGGACGTGCCAGGCCCGCGCCCCG  
CCCACCCGTCGTCAAAGGCACGACCGTCAGCGGGGTCTGG  
TGTGGGAGGACGATGACTCGGCAGACGACAGCAGCGTCCT  
GGATTTGGGAGGGAGTGGCAACCCGTTTGCGCACCTTCGC  
CCCAGGCTGGGGAGAATGTTTTAAAAAAGCATGAT  
GCAAAATAAAAAACTACCAAGGCCATGGCACCGAGCGT  
TGGTTTTCTTGTAATTCCTTAGTATGCGGCGCGCGCGCATG  
TATGAGGAAGGTCCTCCTCCTACGAGAGTGTGGT  
GAGCGCGGCGCCAGTGGCGGCGGCGCTGGGTCTCCCTTC  
GATGCTCCCCTGGACCCGCGCTTGTGCCTCCGCGGTACC  
TGCGGCCTACCGGGGGAGAAACAGCATCCGTTACTCTGAG  
TTGGCACCCCTATTCGACACCACCCGTGTGTACCTGGTG  
GACAACAAGTCAACGGATGTGGCATCCCTGAACTACCAGAA  
CGACCACAGCAACTTTCTGACCACGGTCATTCAAAACAA  
TGACTACAGCCCGGGGGAGGCAAGCACACAGACCATCAATC  
TTGACGACCGGTGCGACTGGGGCGGCGACCTGAAAACCA  
TCCTGCATACCAACATGCCAAATGTGAACGAGTTCATGTTTA  
CCAATAAGTTTAAGGCGCGGGTGATGGTGTGCGCGCTTG  
CCTACTAAGGACAATCAGGTGGAGCTGAAATACGAGTGGGT  
GGAGTTCACGCTGCCCCGAGGGGCAACTACTCCGAGACCAT  
GACCATAGACCTTATGAACAACGCGATCGTGGAGCACTACTT  
GAAAGTGGGCAGACAGAACGGGGTTCTGGAAAGCGACA  
TCGGGGTAAAGTTTGACACCCGCAACTTCAGACTGGGGTTT  
GACCCCGTCACTGGTCTTGTGTCATGCCTGGGGTATATACA

AACGAAGCCTTCCATCCAGACATCATTITGCTGCCAGGATGC  
 GGGGTGGACTTCACCCACAGCCGCCTGAGCAACTTGTT  
 GGGCATCCGCAAGCGGCAACCCTTCCAGGAGGGCTTTAGGA  
 TCACCTACGATGATCTGGAGGGTGGTAACATTCCCGCAC  
 TGTTGGATGTGGACGCCTACCAGGCGAGCTTGAAAGATGAC  
 ACCGAACAGGGCGGGGGTGGCGCAGGCGGCAGCAACAGC  
 AGTGGCAGCGGCGCGGAAGAGAACTCCAACGCGGCAGCCG  
 CGGCAATGCAGCCGGTGGAGGACATGAACGATCATGCCAT  
 TCGCGGCGACACCTTTGCCACACGGGCTGAGGAGAAGCGC  
 GCTGAGGCCGAAGCAGCGGCCGAAGCTGCCGCCCCCGCTG  
 CGCAACCCGAGGTCGAGAAGCCTCAGAAGAAACCGGTGATC  
 AAACCCCTGACAGAGGACAGCAAGAAACGCAGTTACAAC  
 CTAATAAGCAATGACAGCACCTTACCCAGTACCGCAGCTGG  
 TACCTTGCATACAACACTACGGCGACCCTCAGACCGGAAT  
 CCGCTCATGGACCCTGCTTTGCACTCCTGACGTAACCTGCGG  
 CTCGGAGCAGGTCTACTGGTCGTTGCCAGACATGATGC  
 AAGACCCCGTGACCTTCCGCTCCACGCGCCAGATCAGCAAC  
 TTTCCGGTGGTGGGCGCCGAGCTGTTGCCCGTGCACTCC  
 AAGAGCTTCTACAACGACCAGGCCGTCTACTCCCAACTCATC  
 CGCCAGTTTACCTCTCTGACCCACGTGTTCAATCGCTT  
 TCCCGAGAACCAGATTTTGGCGCGCCCGCCAGCCCCACCA  
 TCACCACCGTCAGTGAAAACGTTCTGCTCTCACAGATC  
 ACGGGACGCTACCGCTGCGCAACAGCATCGGAGGAGTCCA  
 GCGAGTGACCATTACTGACGCCAGACGCCGCACCTGCCCC  
 TACGTTTACAAGGCCCTGGGCATAGTCTCGCCGCGCGTCTTA  
 TCGAGCCGCACTTTTGGAGCAAGCATGTCCATCCTTAT  
 ATCGCCAGCAATAACACAGGCTGGGGCCTGCGCTTCCCAA  
 GCAAGATGTTTGGCGGGGCCAAGAAGCGCTCCGACCAAC  
 ACCCAGTGCGCGTGCGCGGGCACTACCGCGCGCCCTGGGG  
 CGCGCACAAACGCGGCCGCACTGGGCGCACCAACCGTCGAT  
 GACGCCATCGACGCGGTGGTGGAGGAGGCGCGCAACTACA  
 CGCCACGCGCCACCAGTGTCCACAGTGGACGCGGCCAT  
 TCAGACCGTGTTGCGCGGAGCCCGCGCTATGCTAAAATGA  
 AGAGACGGCGGAGGCGCGTAGCACGTGCGCACCGCCGCC  
 GACCCGGCACTGCCGCCCAACGCGCGGCGGCGGCCCTGCT  
 TAACCGCGCACGTGCGACCGGCCGACGGGCGGCCATGCGG  
 GCCGCTCGAAGGCTGGCCGCGGGTATTGTCACTGTGCCCCC  
 CAGGTCCAGGCGACGAGCGGCCGCGCAGCAGCCGCGGC  
 CATTAGTGCTATGACTCAGGGTTCGAGGGGCAACGTGTATT  
 GGGTGGCGGACTCGGTTAGCGGCCTGCGCGTGCCCGTGC  
 GCACCCGCCCCCGCGCAACTAGATTGCAAGAAAAAACTAC  
 TTAGACTCGTACTGTTGTATGTATCCAGCGGCGGCGGCG  
 CGCAACGAAGCTATGTCCAAGCGCAAAATCAAAGAAGAGAT  
 GCTCCAGGTTCATCGCGCCGGAGATCTATGGCCCCCGAA  
 GAAGGAAGAGCAGGATTACAAGCCCCGAAAGCTAAAGCGG  
 GTCAAAAAGAAAAAGAAAGATGATGATGATGAACTTGACG  
 ACGAGGTGGAACCTGCTGCACGCTACCGCGCCCAGGCGACG  
 GGTACAGTGGAAGGTTCGACGCGTAAAACGTGTTTTGCGA  
 CCCGGCACCAACCGTAGTCTTTACGCCCGGTGAGCGCTCCAC  
 CCGCACCTACAAGCGCGTGTATGATGAGGTGTACGGCGA  
 CGAGGACCTGCTTGAGCAGGCCAACGAGCGCCTCGGGGAG  
 TTTGCTTACGGAAAGCGGCATAAGGACATGCTGGCGTTGC  
 CGTGAGCAGGAGGCAACCCACCTAGCCTAAAGCCCGTA  
 ACACTGCAGCAGGTGCTGCCCGCGCTTGCACCGTCCGAA  
 GAAAAGCGCGGCCTAAAGCGCGAGTCTGGTGACTTGGCACC  
 CACCGTGCAGCTGATGGTACCCAAGCGCCAGCGACTGGA

AGATGTCTTGGAAAAAATGACCGTGGAACCTGGGCTGGAGC  
 CCGAGGTCCGCGTGCGGCCAATCAAGCAGGTGGCGCCGG  
 GACTGGGCGTGCGAGACCGTGGACGTTAGATAACCACTACC  
 AGTAGCACCAGTATTGCCACCGCCACAGAGGGCATGGAG  
 ACACAAACGTCCCCGGTTGCCTCAGCGGTGGCGGATGCCCG  
 GGTGCAGGCGGTGCGTGCGGCCGCGTCCAAGACCTCTAC  
 GGAGGTGCAAACGGACCCGTGGATGTTTCGCGTTTCAGCCC  
 CCCGGCGCCCCGCGCGGTTCGAGGAAGTACGGCGCCGCCA  
 GCGCGCTACTGCCCCGAATATGCCCTACATCCTTCCATTGCGC  
 CTACCCCCGGCTATCGTGGCTACACCTACCGCCCCAGA  
 AGACGAGCAACTACCCGACGCCGAACCACCACTGGAACCCG  
 CCGCCGCGGTGCGCGTGCGCCAGCCCGTGCTGGCCCCGAT  
 TTCCGTGCCAGGGTGGCTCGCGAAGGAGGCAGGACCCTG  
 GTGCTGCCAACAGCGCGCTACCAACCCAGCATCGTTTAAA  
 AGCCGGTCTTTGTGGTTCTTGCGAGATATGGCCCTCACCTGCC  
 GCCTCCGTTTCCCGGTGCCGGGATTCCGAGGAAGAATG  
 CACCGTAGGAGGGGCATGGCCGGCCACGGCCTGACGGGGCG  
 GCATGCGTGTGCGCACCACCGGCGGCGGCGCGCGTGC  
 CCGTGCATGCGCGGCGGTATCCTGCCCTCCTTATTCCACT  
 GATCGCCGCGGCGATTGGCGCCGTGCCCGGAATTGCAT  
 CCGTGGCCTTGCGAGGCGCAGAGACACTGATTA AAAACAAGT  
 TGCATGTGGA AAAATCAAATAAAAAGTCTGGACTCTCA  
 CGCTCGCTTGGTCTGTAACTATTTTGTAGAATGGAAGACAT  
 CAACCTTTGCGTCTCTGGCCCCGCGACACGGCTCGCGCC  
 CGTTCATGGGAAACTGGCAAGATATCGGCACCAGCAATATG  
 AGCGGTGGCGCCTTCAGCTGGGGCTCGCTGTGGAGCGGC  
 ATTA AAAAATTCGTTCCACCGTTAAGAACTATGGCAGCAAG  
 GCCTGGAACAGCAGCAGCAGGCCAGATGCTGAGGGATAA  
 GTTGAAAGAGCAAAATTTCCAACAAAAGGTGGTAGATGGCC  
 TGGCCTCTGGCATTAGCGGGGTGGTGGACCTGGCCAACC  
 AGGCAGTGCAAAATAAGATTAACAGTAAGCTTGATCCCCGCC  
 CTCCCGTAGAGGAGCCTCCACCGGCCGTGGAGACAGTG  
 TCTCCAGAGGGGCGTGCGGAAAAGCGTCCGCGCCCCGACA  
 GGAAGAAACTCTGGTGACGCAAAATAGACGAGCCTCCCTC  
 GTACGAGGAGGCACTAAAGCAAGGCCTGCCACCACCCGTC  
 CCATCGCGCCCATGGCTACCGGAGTGCTGGGCCAGCACA  
 CACCCGTAACGCTGGACCTGCCTCCCCCGCCGACACCCAG  
 CAGAAACCTGTGCTGCCAGGCCCGACCGCCGTGTTGTA  
 ACCCGTCCTAGCCGCGCGTCCCTGCGCCGCGCCGCGCAGCGG  
 TCCGCGATCGTTGCGGCCCGTAGCCAGTGGCAACTGGCA  
 AAGCACACTGAACAGCATCGTGGGTCTGGGGGTGCAATCCC  
 TGAAGCGCCGACGATGCTTCTGAATAGCTAACGTGTCTGT  
 ATGTGTGTGTCATGTATGCGTCCATGTGCGCCGCCAGAGGAGCT  
 GCTGAGCCGCGCGCGCGCCCGCTTTCCAAGATGGCTACCC  
 CTTGATGATGCCGCGAGTGGTCTTACATGCACATCTCGGGCC  
 AGGACGCCTCGGAGTACCTGAGCCCCGGGCTGGTGCAG  
 TTTGCCCGCGCCACCGAGACGTA CTTCAGCCTGAATAACAAG  
 TTTAGAAACCCACCGGTGGCGCCTACGCACGACGTGAC  
 CACAGACCGGTCCCAGCGTTTGACGCTGCGGTTTATCCCTGT  
 GGACCGTGAGGATACTGCGTACTCGTACAAGGCGCGGT  
 TCACCTAGCTGTGGGTGATAACCGTGTGCTGGACATGGCTT  
 CCACGTA CTTTGACATCCGCGGCGTGCTGGACAGGGGC  
 CCTACTTTTAAGGCCCTACTCTGGCACTGCCTACAACGCCCTG  
 GCTCCCAAGGGTCCCCCAATCCTTGCGAATGGGATGA  
 AGCTGCTACTGCTCTTGAAATAAACCTAGAAGAAGAGGACG  
 ATGACAACGAAGACGAAGTAGACGAGCAAGCTGAGCAGC

AAAAACTCACGTATTTGGGCAGGCGCCTTATTCTGGTATAA  
 ATATTACAAAGGAGGGTATTCAAATAGGTGTCTGAAGGT  
 CAAACACCTAAATATGCCGATAAAACATTTCAACCTGAACCT  
 CAAATAGGAGAATCTCAGTGGTACGAAACTGAAATTAA  
 TCATGCAGCTGGGAGAGTCTTAAAAAGACTACCCCAATGAA  
 ACCATGTTACGGTTCATATGCAAAACCCACAAATGAAA  
 ATGGAGGGCAAGGCATTCTTGTAAGCAACAAATGGAAAG  
 CTAGAAAGTCAAGTGGAAATGCAATTTTTCTCACTACT  
 GAGGCGACCGCAGGCAATGGTGATAACTTGACTCCTAAAGT  
 GGTATTGTACAGTGAAGATGTAGATATAGAAACCCAGAG  
 CACTCATATTTCTTACATGCCCACTATTAAGGAAGGTAACTCA  
 CGAGAACTAATGGGCCAACAATCTATGCCCAACAGGC  
 CTAATTACATTGCTTTTAGGGACAATTTTATTGGTCTAATGTA  
 TTACAACAGCACGGGTAATATGGGTGTTCTGGCGGGC  
 CAAGCATCGCAGTTGAATGCTGTTGTAGATTTGCAAGACAGA  
 AACACAGAGCTTTTCATACCAGCTTTTGCTTGATTCCAT  
 TGGTGATAGAACCAGGTACTTTTCTATGTGGAATCAGGCTGT  
 TGACAGCTATGATCCAGATGTTAGAATTATTGAAAATC  
 ATGGAAGTGAAGATGAACTTCCAAATTACTGCTTTCCACTGG  
 GAGGTGTGATTAATACAGAGACTCTTACCAAGGTAAAA  
 CCTAAAACAGGTCAGGAAAATGGATGGGAAAAAGATGCTAC  
 AGAATTTTCAGATAAAAAATGAAATAAGAGTTGGAAATAA  
 TTTTGCCATGGAAATCAATCTAAATGCCAACCTGTGGAGAAA  
 TTTCTGTACTCCAACATAGCGCTGTATTTGCCCGACA  
 AGCTAAAGTACAGTCCCTCCAACGTAAAAATTTCTGATAACC  
 CAAACACCTACGACTACATGAACAAGCGAGTGGTGGCT  
 CCCGGGTTAGTGGACTGCTACATTAACCTTGGAGCACGCTG  
 GTCCCTTGACTATATGGACAACGTCAACCCATTTAACCA  
 CCACCGCAATGCTGGCCTGCGCTACCGCTCAATGTTGCTGG  
 GCAATGGTTCGCTATGTGCCCTTCCACATCCAGGTGCCTC  
 AGAAGTTCTTTGCCATTAAAAACCTCCTTCTCCTGCCGGGCT  
 CATACACCTACGAGTGGAACCTTCAGGAAGGATGTTAAC  
 ATGGTTCTGCAGAGCTCCCTAGGAAATGACCTAAGGGTTGA  
 CGGAGCCAGCATTAAGTTTGATAGCATTGCTTTACGC  
 CACCTTCTTCCCCATGGCCCAACAACACCGCCTCCACGCTTGA  
 GGCCATGCTTAGAAACGACACCAACGACCAGTCCTTTA  
 ACGACTATCTCTCCGCGGCCAACATGCTCTACCCTATACCCG  
 CCAACGCTACCAACGTGCCCATATCCATCCCCCTCCCGC  
 AACTGGGCGGCTTTCCGCGGCTGGGCCTTCACGCGCCTTAA  
 GACTAAGGAAACCCCATCACTGGGCTCGGGCTACGACCC  
 TTATTACACCTACTCTGGCTCTATACCCTACCTAGATGGAACC  
 TTTTACCTCAACCACACCTTTAAGAAGGTGGCCATTA  
 CCTTTGACTCTTCTGTGCTAGCTGGCCTGGCAATGACCGCCTGC  
 TTACCCCAACGAGTTTGAAATTAAGCGCTCAGTTGAC  
 GGGGAGGGTTACAACGTTGCCAGTGTAACATGACCAAAGA  
 CTGGTTCCTGGTACAAATGCTAGCTAACTACAACATTGG  
 CTACCAGGGCTTCTATATCCCAGAGAGCTACAAGGACCGCAT  
 GTACTCCTTCTTTAGAACTTCCAGCCCATGAGCCGTC  
 AGGTGGTGGATGATACTAAATACAAGGACTACCAACAGGTG  
 GGCATCCTACACCAACACAACAACCTCTGGATTTGTTGGC  
 TACCTTGCCCCCACCATGCGCGAAGGACAGGCCTACCCTGC  
 TAACTTCCCCTATCCGCTTATAGGCAAGACCGCAGTTGA  
 CAGCATTACCCAGAAAAAGTTTCTTTGCGATCGCACCCCTTG  
 GCGCATCCCATTCTCCAGTAACTTTATGTCCATGGGCG  
 CACTCACAGACCTGGGCCAAAACCTTCTCTACGCCAACTCCG  
 CCCACGCGCTAGACATGACTTTTGAGGTGGATCCCATG

GACGAGCCCCACCTTCTTTATGTTTTGTTTGAAGTCTTTGACG  
 TGGTCCGTGTGCACCGGCCGACCGCGGCGTCATCGA  
 AACCGTGTACCTGCGCACGCCCTTCTCGGCCGGCAACGCCA  
 CAACATAAAGAAGCAAGCAACATCAACAACAGCTGCCGC  
 CATGGGCTCCAGTGAGCAGGAAGTGAAGGCCATTGTCAAAG  
 ATCTTGTTGTGGGCCATATTTTTTGGGCACCTATGACA  
 AGCGCTTTCCAGGCTTTGTTTCTCCACACAAGCTCGCCTGCG  
 CCATAGTCAATACGGCCGGTTCGCGAGACTGGGGGGCGTA  
 CACTGGATGGCCTTTGCCTGGAACCCGCACTCAAAAACATGC  
 TACCTCTTTGAGCCCTTTGGCTTTTCTGACCAGCGACT  
 CAAGCAGGTTTACCAGTTTGAAGTACGAGTCACTCCTGCGCCG  
 TAGCGCCATTGCTTCTCCCCCGACCGCTGTATAACGC  
 TGGAAAAGTCCACCCAAAGCGTACAGGGGGCCCAACTCGGCC  
 GCCTGTGGACTATTCTGCTGCATGTTTCTCCACGCCCTT  
 GCCAACTGGCCCCAAACTCCCATGGATCACAACCCACCATG  
 AACCTTATTACCGGGGTACCCAACTCCATGCTCAACAG  
 TCCCCAGGTACAGCCCACCCTGCGTTCGCAACCAGGAACAGC  
 TCTACAGCTTCTTGAGCGCCACTCGCCCTACTTCCGCA  
 GCCACAGTGCGCAGATTAGGAGCGCCACTTCTTTTGTCACT  
 TGAAAAACATGTAAAAATAATGTACTAGAGACACTTTC  
 AATAAAGGCAAATGCTTTTATTTGTACACTCTCGGGTGATTAT  
 TTACCCCCACCTTGCCGTCTGCGCCGTTTAAAAATC  
 AAAGGGGTTCTGCCGCGCATCGCTATGCGCCACTGGCAGGG  
 ACACGTTGCGATACTGGTGTTTAGTGCTCCACTTAAACT  
 CAGGCACAACCATCCGCGGCAGCTCGGTGAAGTTTCACTC  
 CACAGGCTGCGCACCATACCAACGCGTTTAGCAGGTCG  
 GCGCGCGATATCTTGAAGTCGCAGTTGGGGCCTCCGCCCTG  
 CGCGCGCAGTTGCGATACACAGGGTTGCAGCACTGGAA  
 CACTATCAGCGCCGGGTGGTGCACGCTGGCCAGCACGCTCT  
 TGTCCGAGATCAGATCCGCGTCCAGGTCCTCCGCGTTGC  
 TCAGGGCGAACGGAGTCAACTTTGGTAGCTGCCTTCCCAA  
 AAGGGCGCGTGCCCAAGCTTTGAGTTGCACTCGCACCGT  
 AGTGGCATCAAAAGGTGACCGTGCCCGGTCTGGGCGTTAGG  
 ATACAGCGCCTGCATAAAAGCCTTGATCTGCTTAAAAGC  
 CACCTGAGCCTTTGCGCCTTCAGAGAAGAACATGCCGCAAG  
 ACTTGCCGGAAAACCTGATTGGCCGGACAGGCCGCGTCGT  
 GCACGCAGCACCTTGCGTCCGGTGTTGGAGATCTGCACCACA  
 TTTCCGGCCCCACCGGTTCTTACGATCTTGGCCTTGCTA  
 GACTGCTCCTTCAGCGCGCGCTGCCCGTTTTCGCTCGTCACA  
 TCCATTTCAATCACGTGCTCCTTATTTATCATAATGCT  
 TCCGTGTAGACACTTAAGCTCGCCTTCGATCTCAGCGCAGCG  
 GTGCAGCCACAACGCGCAGCCCGTGGGCTCGTGATGCT  
 TGTAGGTCACCTCTGCAAACGACTGCAGGTACGCCTGCAGG  
 AATCGCCCCATCATCGTCACAAAGGTCTTGTGCTGGTG  
 AAGGTCAGCTGCAACCCGCGGTGCTCCTCGTTTCAGCCAGGT  
 CTTGCATACGGCCGCCAGAGCTTCCACTTGGTTCAGGCAG  
 TAGTTTGAAGTTCGCCTTTAGATCGTTATCCACGTGGTACTTG  
 TCCATCAGCGCGCGCGCAGCCTCCATGCCCTTCTCCC  
 ACGCAGACACGATCGGCACACTCAGCGGGTTCATCACCGTA  
 ATTTCACTTTCCGCTTCGCTGGGCTCTTCTCTCTCTCT  
 TGGTCCGCATACCACGCGCCACTGGGTCGTCTTCATTACGC  
 CGCCGCACTGTGCGCTTACCTCCTTTGCCATGCTTGAT  
 TAGCACCGGTGGGTTGCTGAAACCCACCATTTGTAGCGCCA  
 CATCTTCTCTTTCTTCTCGCTGTCCACGATTACCTCTG  
 GTGATGGCGGGCGCTCGGGCTTGGGAGAAGGGCGCTTCTTT  
 TTCTTCTTGGGCGCAATGGCCAAATCCGCCGCCGAGGTC

GATGGCCGCGGGCTGGGTGTGCGCGGCACCAGCGCGTCTT  
 GTGATGAGTCTTCCTCGTCCTCGGACTCGATACGCCGCCT  
 CATCCGCTTTTTTGGGGGCGCCCGGGGAGGCGGCGGCGAC  
 GGGGACGGGGACGACACGTCTCCATGGTTGGGGGACGTC  
 GCGCCGCACCGCGTCCGCGCTCGGGGGTGGTTTCGCGCTG  
 CTCCTCTTCCCGACTGGCCATTTCTTCTCCTATAGGCAG  
 AAAAAGATCATGGAGTCAGTCGAGAAGAAGGACAGCCTAAC  
 CGCCCCCTCTGAGTTCGCCACCACCGCCTCCACCGATGC  
 CGCCAACGCGCCTACCACCTTCCCCGTGAGGACCCCCGC  
 TTGAGGAGGAGGAAGTGATTATCGAGCAGGACCCAGGTT  
 TTGTAAGCGAAGACGACGAGGACCGCTCAGTACCAACAGAG  
 GATAAAAAGCAAGACGAGGACAACGACAGAGGCAAACGAG  
 GAACAAGTCGGGCGGGGGGACGAAAGGCATGGCGACTACC  
 TAGATGTGGGAGACGACGTGCTGTTGAAGCATCTGCAGCG  
 CCAGTGCGCCATTATCTGCGACGCGTTGCAAGAGCGCAGCG  
 ATGTGCCCTCGCCATAGCGGATGTCAGCCTTGCCCTACG  
 AACGCCACCTATTCTCACCGCGCGTACCCCCCAAACGCCAAG  
 AAAACGGCACATGCGAGCCCAACCCGCGCCTCAACTTC  
 TACCCCGTATTTGCCGTGCCAGAGGTGCTTGCCACCTATCAC  
 ATCTTTTTCCAAAACCTGCAAGATACCCCTATCCTGCCG  
 TGCCAACCGCAGCCGAGCGGACAAGCAGCTGGCCTTGCGG  
 CAGGGCGCTGTCATACCTGATATCGCCTCGCTCAACGAAG  
 TGCCAAAAATCTTTGAGGGTCTTGACGCGACGAGAAGCGC  
 GCGGCAAACGCTCTGCAACAGGAAAACAGCGAAAATGAA  
 AGTCACTCTGGAGTGTTGGTGGAACCTCGAGGGTGACAACGC  
 GCGCCTAGCCGTAATAAACGACGAGCATCGAGGTCACCCA  
 CTTTGCTTACCCGGCACTTAACCTACCCCCCAAGGTCATGAG  
 CACAGTCATGAGTGAGCTGATCGTGCGCCGTGCGCAGC  
 CCCTGGAGAGGGATGCAAATTTGCAAGAACAACAGAGGAG  
 GGCCTACCCGCAGTTGGCGACGAGCAGCTAGCGCGCTGG  
 CTTCAAACGCGCGAGCCTGCCGACTTGAGGAGCGACGCAA  
 ACTAATGATGGCCGCACTGCTCGTTACCGTGAGCTTGA  
 GTGCATGCAGCGGTTCTTTGCTGACCCGGAGATGCAGCGCA  
 AGCTAGAGGAAACATTGCACTACACCTTTCGACAGGGCT  
 ACGTACGCCAGGCCTGCAAGATCTCCAACGTGGAGCTCTGC  
 AACCTGGTCTCCTACCTTGGAATTTTGACGAAAACCGC  
 CTTGGGCAAACGCTGCTTCATTCCACGCTCAAGGGCGAGGC  
 GCGCCGCACTACGTCCGCGACTGCGTTTACTTATTTCT  
 ATGCTACACCTGGCAGACGCGCATGGGCGTTTGGCAGCAGT  
 GCTTGGAGGAGTGCAACCTCAAGGAGCTGCAGAAACTGC  
 TAAAGCAAACTTGAAGGACCTATGGACGGCCTTCAACGAG  
 CGCTCCGTGGCCGCGCACCTGGCGGACATCATTTTGCCC  
 GAACGCCTGCTTAAACCCCTGCAACAGGGTCTGCCAGACTTC  
 ACCAGTCAAAGCATGTTGCAGAACTTTAGGAACTTTAT  
 CCTAGAGCGCTCAGGAATCTTGCCCGCCACCTGCTGTGCACT  
 TCCTAGCGACTTTGTGCCCATTAAGTACCGCGAATGCC  
 CTCGCGCGCTTTGGGGCCACTGCTACCTTCTGCAGCTAGCCA  
 ACTACCTTGCTTACCACTCTGACATAATGGAAGACGTG  
 AGCGGTGACGGTCTACTGGAGTGCTACTGTCGCTGCAACCT  
 ATGCACCCCGCACCGCTCCCTGGTTTGCAATTTCGCAGCT  
 GCTTAACGAAAGTCAAATTATCGGTACCTTTGAGCTGCAGGG  
 TCCCTCGCTGACGAAAAGTCCGCGGCTCCGGGGTTGA  
 AACTCACTCCGGGTGTGGACGTCGGCTTACCTTCGCAAAT  
 TTGTACCTGAGGACTACCACGCCCACGAGATTAGGTTT  
 TACGAAGACCAATCCCGCCCGCCAAATGCGGAGCTTACCGC  
 CTGCGTCATTACCCAGGGCCACATTCTTGGCCAATTGCA

AGCCATCAACAAAGCCCCGCCAAGAGTTTCTGCTACGAAAGG  
 GACGGGGGGGTTTACTTGGACCCCCAGTCCGGCGAGGAGC  
 TCAACCCCAATCCCCCGCCGCCGAGCCCTATCAGCAGCAG  
 CCGCGGGGCCCTTGCTTCCCAGGATGGCACCCAAAAAGAA  
 GCTGCAGCTGCCGCCGCCACCCACGGACGAGGAGGAATACT  
 GGGACAGTCAGGCAGAGGAGGTTTTGGACGAGGAGGAGG  
 AGGACATGATGGAAGACTGGGAGAGCCTAGACGAGGAAGC  
 TTCCGAGGTCTGAAGAGGTGTCAGACGAAACACCGTCACCC  
 TCGGTCTGCATTCCCCTCGCCGGCGCCCCAGAAATCGGCAAC  
 CGGTTCCAGCATGGCTACAACCTCCGCTCCTCAGGCGCC  
 GCCGGCACTGCCCGTTCCGCCGACCCAACCGTAGATGGGACA  
 CCACTGGAACCAGGGCCGGTAAGTCCAAGCAGCCGCCGC  
 CGTTAGCCCAAGAGCAACAACAGCGCCAAGGCTACCGCTCA  
 TGGCGCGGGCACAAGAACGCCATAGTTGCTTGCTTGCAA  
 GACTGTGGGGGGCAACATCTCCTTCGCCCGCCGCTTTCTTCTC  
 TACCATCACGGCGTGGCCTTCCCCCGTAACATCCTGCA  
 TTAATAACCGTCATCTCTACAGCCCATACTGCACCCGGCGGCAG  
 CGGCAGCCGCGAGCAACAGCAGCGGCCACACAGAAGCAA  
 AGGCGACCCGATAGCAAGACTCTGACAAAGCCCAAGAAATC  
 CACAGCGGGCGGCAGCAGCAGGAGGAGGAGCGCTGCGTCT  
 GGCGCCCAACGAACCCGTATCGACCCGCGAGCTTAGAAACA  
 GGATTTTTTCCCACTCTGTATGCTATATTTCAACAGAGCA  
 GGGGCCAAGAACAAGAGCTGAAAATAAAAAACAGGTCTCTG  
 CGATCCCTCACCCGCAGCTGCCTGTATCACAAAAGCGAA  
 GATCAGCTTTCGGCGCACGCTGGAAGACGCGGAGGCTCTCTT  
 CAGTAAATACTGCGCGCTGACTCTTAAGGACTAGTTTCG  
 CGCCCTTTCTCAAATTTAAGCGCGAAAACCTACGTCATCTCCA  
 GCGGCCACACCCGGCGCCAGCACCTGTCTGTCAGCGCCA  
 TTATGAGCAAGGAAATTCCCACGCCCTACATGTGGAGTTACC  
 AGCCACAAATGGGACTTGCGGCTGGAGCTGCCCAAGAC  
 TACTCAACCCGAATAAACTACATGAGCGCGGGACCCACAT  
 GATATCCCGGTCAACCGGAATCCGCGCCCAACCGAAACCG  
 AATTCTCTTGGAAACAGGCGGCTATTACCACACACCTCGTAA  
 TAACCTTAATCCCCGTAGTTGGCCCGCTGCCCTGGTGT  
 ACCAGGAAAGTCCCGCTCCCACCACTGTGGTACTTCCCAGA  
 GACGCCCAGGCCGAAGTTCAGATGACTAACTCAGGGGCG  
 CAGCTTGCGGGCGGCTTTTCGTACAGGGGTGCGGTGCGCCGG  
 GCAGGGTATAACTCACCTGACAATCAGAGGGGCGAGGTAT  
 TCAGCTCAACGACGAGTCGGTGAGCTCCTCGCTTGGTCTCC  
 GTCCGGACGGGACATTTACAGATCGGCGGCGCCGGCCGTC  
 CTTTATTACGCCTCGTCAGGCAATCCTAACTCTGCAGACCT  
 CGTCCTCTGAGCCGCGCTCTGGAGGCATTGGAACCTCTG  
 CAATTTATTGAGGAGTTTGTGCCATCGGTCTACTTTAACCCCT  
 TCTCGGGACCTCCCGGCCACTATCCGGATCAATTTAT  
 TCCTAACTTTGACGCGGTAAAGGACTCGGCGGACGGCTACG  
 ACTGAATGTTAAGTGGAGAGGCAGAGCAACTGCGCCTGA  
 AACACCTGGTCCACTGTCTGCCGCCACAAGTGCTTTGCCCGC  
 GACTCCGGTGAGTTTTTGCTACTTTGAATTGCCCGAGGAT  
 CATATCGAGGGGCCCGGCACGGCGTCCGGCTTACCGCCCA  
 GGGAGAGCTTGCCCGTAGCCTGATTCGGGAGTTTACCCA  
 GCGCCCCCTGCTAGTTGAGCGGGACAGGGGACCCTGTGTTT  
 TCACTGTGATTTGCAACTGTCTAACCTTGGATTACATC  
 AAGATCTTTGTTGCCATCTCTGTGCTGAGTATAATAAATACAG  
 AAATTAATAATACTGGGGCTCCTATCGCCATCCTGT  
 AAACGCCACCGTCTTACCCGCCCAAGCAAACCAAGGCGAA  
 CCTTACCTGGTACTTTTAACATCTCTCCCTCTGTGATTT



ACAACAGTTTCAACCCAGACGGAGTGAGTCTACGAGAGAAC  
 CTCTCCGAGCTCAGCTACTCCATCAGAAAAAACACCACC  
 CTCCTTACCTGCCGGGAACGTACGAGTGCGTCACCGGCCGC  
 TGCACCACACCTACCGCCTGACCGTAAACCAGACTTTTT  
 CCGGACAGACCTCAATAACTCTGTTTACCAGAACAGGAGGT  
 GAGCTTAGAAAAACCCCTAGGGTATTAGGCCAAAGGCGCA  
 GCTACTGTGGGGTTTATGAACAATTCAAGCAACTCTACGGGC  
 TATTCTAATTCAGGTTTCTCTAATCGGGGTTGGGGTTA  
 TTCTCTGTCTTGTGATTCTCTTTATTCTTATACTAACGCTTCTC  
 TGCCTAAGGCTCGCCGCCTGCTGTGTGCACATTTGC  
 ATTTATTGTCAGCTTTTTAAACGCTGGGGTCGCCACCCAAGA  
 TGATTAGGTACATAATCCTAGGTTTACTCACCTTGCG  
 TCAGCCCACGGTACCACCCAAAAGGTGGATTTTAAGGAGCC  
 AGCCTGTAATGTTACATTGCGCAGCTGAAGCTAATGAGTG  
 CACCACTCTTATAAAATGCACCACAGAACATGAAAAGCTGCT  
 TATTGCGCCAAAAACAAAATTGGCAAGTATGCTGTTT  
 ATGCTATTTGCGCAGCCAGGTGACACTACAGAGTATAATGTTA  
 CAGTTTTCCAGGGTAAAAGTCATAAACTTTTATGTAT  
 ACTTTTCCATTTTATGAAATGTGCGACATTACCATGTACATGA  
 GCAAACAGTATAAGTTGTGGCCCCCACAAAATTGTGT  
 GGAAAACACTGGCACTTTCTGCTGCACTGCTATGCTAATTAC  
 AGTGCTCGCTTTGGTCTGTACCCTACTCTATATTAAT  
 ACAAAGCAGACGCGAGCTTTATTGAGGAAAAGAAAATGCCTT  
 AATTTACTAAGTTACAAAGCTAATGTCACCACTAACTG  
 CTTTACTCGCTGCTTGCAAAACAAATTCAAAAAGTTAGCATT  
 TAATTAGAATAGGATTTAAACCCCCCGGTCATTTCT  
 GCTCAATACCATTCCCCTGAACAATTGACTCTATGTGGGATA  
 TGCTCCAGCGCTACAACCTTGAAGTCAGGCTTCCTGGA  
 TGTCAGCATCTGACTTTGGCCAGCACCTGTCCCGCGGATTTG  
 TTCCAGTCCAACACTACAGCGACCCACCTAACAGAGATG  
 ACCAACACAACCAACGCGCGCCGCTACCGGACTTACATC  
 TACCACAAATACACCCCAAGTTTCTGCCTTTGTCAATAA  
 CTGGGATAACTTGGGCATGTGGTGGTTCTCCATAGCGCTTAT  
 GTTTGTATGCCTTATTATTATGTGGCTCATCTGCTGCC  
 TAAAGCGCAAACGCGCCCCGACCACCATCTATAGTCCCATCA  
 TTGTGCTACACCCAAACAATGATGGAATCCATAGATTG  
 GACGGACTGAAACACATGTTCTTTTCTCTTACAGTATGATTAA  
 ATGAGACATGATTCCTCGAGTTTTTATATTACTGACC  
 CTTGTTGCGCTTTTTTGTGCGTGCTCCACATTGGCTGCGGTTT  
 CTCACATCGAAGTAGACTGCATTCCAGCCTTCACAGT  
 CTATTTGCTTTACGGATTTGTACCCCTCACGCTCATCTGCAGC  
 CTCATCACTGTGGTCATCGCCTTTATCCAGTGCATTG  
 ACTGGGTCTGTGTGCGCTTTGCATATCTCAGACACCATCCCC  
 AGTACAGGGACAGGACTATAGCTGAGCTTCTTAGAAAT  
 GGACGGAATTATTACAGAGCAGCGCCTGCTAGAAAGACGCA  
 GGGCAGCGGCCGAGCAACAGCGCATGAATCAAGAGCTCC  
 AAGACATGGTTAACTTGCACCAGTGCAAAAGGGGTATCTTTT  
 GTCTGGTAAAGCAGGCCAAAGTCACCTACGACAGTAAT  
 ACCACCGGACACCGCCTTAGCTACAAGTTGCCAACCAAGCG  
 TCAGAAATTGGTGGTCATGGTGGGAGAAAAGCCCATTA  
 CATAACTCAGCACTCGGTAGAAACCGAAGGCTGCATTCACTC  
 ACCTTGTCAAGGACCTGAGGATCTCTGCACCCTTATTA  
 AGACCCTGTGCGGTCTCAAAGATCTTATCCCTTTAACTAATA  
 AAAAAAATAATAAAGCATCACTTACTTAAAATCAGT  
 TAGCAAATTTCTGTCCAGTTTATTACAGCAGCACCTCCTTGCCC  
 TCCTCCAGCTCTGGTATTGCAGCTTCCTCCTGGCTG

CAAACTTTCTCCACAATCTAAATGGAATGTCAGTTTCCTCCTG  
 TTCTGTCCATCCGCACCCACTATCTTCATGTTGTTG  
 CAGATGAAGCGCGCAAGACCGTCTGAAGATACCTTCAACCC  
 CGTGTATCCATATGACACGGAACCGGTCTCCAACCTGT  
 GCCTTTTCTTACTCCTCCCTTTGTATCCCCCAATGGGTTTCAA  
 GAGAGTCCCCCTGGGGTACTCTCTTTGCGCCTATCCG  
 AACCTCTAGTTACCTCCAATGGCATGCTTGCGCTCAAAATGG  
 GCAACGGCCTCTCTCTGGACGAGGCCGGCAACCTTACC  
 TCCCAAAATGTAACCACTGTGAGCCCACTCTCAAAAAAACC  
 AAGTCAAACATAAACCTGGAAATATCTGCACCCCTCAC  
 AGTTACCTCAGAAGCCCTAACTGTGGCTGCCGCCGCACCTCT  
 AATGGTTCGCGGGCAACACACTCACCATGCAATCACAGG  
 CCCCCTAACCGTGCACGACTCCAACTTAGCATTGCCACCC  
 AAGGACCCCTCACAGTGTGAGAAGGAAAGCTAGCCCTG  
 CAAACATCAGGCCCCCTCACCACCACCGATAGCAGTACCCTT  
 ACTATCACTGCCTCACCCTCTAACTACTGCCACTGG  
 TAGCTTGGGCATTGACTTGAAAGAGGCCATTTATACACAAAA  
 TGGAAAACTAGGACTAAAGTACGGGGCTCCTTTGCATG  
 TAACAGACGACCTAAACACTTTGACCGTAGCAACTGGTCCAG  
 GTGTGACTATTAATAATACTTCCTTGCAAATAAAGTT  
 ACTGGAGCCTTGGGTTTGTATTACAAGGCAATATGCAACTT  
 AATGTAGCAGGAGGACTAAGGATTGATTCTCAAAACAG  
 ACGCCTTATACTTGATGTTAGTTATCCGTTTGATGCTCAAAAC  
 CAACTAAATCTAAGACTAGGACAGGGCCCTCTTTTAA  
 TAACTCAGCCCACTTGGATATTAATAACAACAAAGGCC  
 TTTACTTGTTCACAGCTTCAAACTTCCAAAAAGCTT  
 GAGGTAAACCTAAGCACTGCCAAGGGGTTGATGTTTGACGC  
 TACAGCCATAGCCATTAATGCAGGAGATGGGCTTGAATT  
 TGGTTCACTAATGCACCAAAACAAATCCCCTCAAAACAAA  
 AATTGGCCATGGCCTAGAATTGATTCAAACAAGGCTA  
 TGGTTCCTAACTAGGAAGTGGCCTTAGTTTGGACAGCACAG  
 GTGCCATTACAGTAGGAAACAAAATAATGATAAGCTA  
 ACTTTGTGGACCACACCAGCTCCATCTCCTAACTGTAGACTA  
 AATGCAGAGAAAGATGCTAAACTCACTTTGGTCTTAAC  
 AAAATGTGGCAGTCAAATACTTGCTACAGTTTCAGTTTTGGC  
 TGTTAAAGGCAGTTTGGCTCCAATATCTGGAACAGTTC  
 AAAGTGCTCATCTTATTATAAGATTTGACGAAAATGGAGTGC  
 TACTAAACAATTCTTCTGACCCAGAATATTGGAAC  
 TTTAGAAATGGAGATCTTACTGAAGGCACAGCCTATACAAAC  
 GCTGTTGGATTTATGCCTAACCTATCAGCTTATCCAAA  
 ATCTCACGGTAAACTGCCAAAAGTAACATTGTCAGTCAAGT  
 TTACTTAAACGGAGACAAAATAACCTGTAACTAA  
 CCATTACACTAAACGGTACACAGGAAACAGGAGACACAACCT  
 CCAAGTGCATACTCTATGTCATTTTCATGGGACTGGTCT  
 GGCCACAACCTACATTAATGAAATATTTGCCACATCCTCTTACA  
 CTTTTTCATACATTGCCCAAGAATAAAGAATCGTTTG  
 TGTTATGTTTCAACGTGTTTATTTTCAATTGCAGAAAATTTCA  
 AGTCATTTTTTCATTAGTAGTATAGCCCCACCACCA  
 CATAGCTTATACAGATCACCGTACCTTAATCAAACCTCACAGA  
 ACCCTAGTATTCAACCTGCCACCTCCCTCCCAACACAC  
 AGAGTACACAGTCTTTCTCCCCGGCTGGCCTTAAAAAGCAT  
 CATATCATGGGTAAACAGACATATTCTTAGGTGTTATAT  
 TCCACACGGTTTCTGTGCGAGCCAAACGCTCATCAGTGATAT  
 TAATAAACTCCCCGGGCAGCTCACTTAAGTTCATGTGCG  
 CTGTCCAGCTGCTGAGCCACAGGCTGCTGTCCAACCTTGCGG  
 TTGCTTAACGGGGCGGCGAAGGAGAAGTCCACGCCTACAT

GGGGGTAGAGTCATAATCGTGCATCAGGATAGGGCGGTGGT  
 GCTGCAGCAGCGCGCGAATAAACTGCTGCCGCCGCCGCT  
 CCGTCTGCAGGAATACAACATGGCAGTGGTCTCCTCAGCG  
 ATGATTCGCACCGCCCCGAGCATAAGGCGCCTTGTCTC  
 CGGGCACAGCAGCGCACCTGATCTCACTTAAATCAGCACA  
 GTAAGTGCAGCACAGCACCACAATATTGTTCAAAATCCC  
 ACAGTGCAAGGCGCTGTATCCAAAGCTCATGGCGGGGACCA  
 CAGAACCCACGTGGCCATCATACCACAAGCGCAGGTTAGA  
 TTAAGTGGCGACCCCTCATAAACACGCTGGACATAAACATTA  
 CCTCTTTTGGCATGTTGTAATTCACCACCTCCCGGTAC  
 CATATAAACCTCTGATTAAACATGGCGCCATCCACCACCATC  
 CTAACCAGCTGGCCAAAACCTGCCCGCCGGCTATACA  
 CTGCAGGGAACCGGGACTGGAACAATGACAGTGGAGAGCC  
 CAGGACTCGTAACCATGGATCATCATGCTCGTCATGATAT  
 CAATGTTGGCACAACACAGGCACACGTGCATACACTTCCTCA  
 GGATTACAAGCTCCTCCCGCGTTAGAACCATATCCCAG  
 GGAACAACCCATTCTGAATCAGCGTAAATCCCACACTGCAG  
 GGAAGACCTCGCACGTAACCTCACGTTGTGCATTGTCAA  
 AGTGTTACATTTCGGGCAGCAGCGGATGATCCTCCAGTATGG  
 TAGCGCGGGTTTCTGTCTCAAAGGAGGTAGACGATCCC  
 TACTGTACGGAGTGCGCCGAGACAACCGAGATCGTGTTGGT  
 CGTAGTGTTCATGCCAAATGGAACGCCGGACGTAGTCATA  
 TTTCTGAAGCAAAACCAGGTGCGGGCGTGACAAACAGATC  
 TGCGTCTCCGGTCTCGCCGCTTAGATCGCTCTGTGTAGT  
 AGTTGTAGTATATCCACTCTCTCAAAGCATCCAGGCGCCCCC  
 TGGCTTCGGGTTCTATGTAACCTCCTTCATGCGCCGCT  
 GCCCTGATAACATCCACCACCGCAGAATAAGCCACACCCAG  
 CCAACCTACACATTTCGTTCTGCGAGTCACACACGGGAGG  
 AGCGGGAAGAGCTGGAAGAACCATGTTTTTTTTTTTATTCCA  
 AAAGATTATCCAAAACCTCAAATGAAGATCTATTAAG  
 TGAACGCGCTCCCCTCCGGTGGCGTGGTCAAACCTCTACAGC  
 CAAAGAACAGATAATGGCATTGTAAGATGTTGCACAAT  
 GGCTTCCAAAAGGCAAACGGCCCTCACGTCCAAGTGGACGT  
 AAAGGCTAAACCCCTCAGGGTGAATCTCCTCTATAAACA  
 TTCCAGCACCTTCAACCATGCCCAAATAATTCTCATCTCGCCA  
 CCTTCTCAATATATCTCTAAGCAAATCCCGAATATTA  
 AGTCCGGCCATTGTAAAAATCTGCTCCAGAGCGCCCTCCACC  
 TTCAGCCTCAAGCAGCGAATCATGATTGCAAAAATTCA  
 GGTTCCTCAGACGCTGTATAAGATTCAAAGCGGAACATTA  
 ACAAAAATACCGCGATCCCGTAGGTCCCTTCGCAGGGC  
 CAGCTGAACATAATCGTGCAGGTCTGCACGGACCAGCGCGG  
 CCACTTCCCCGCCAGGAACCTTGACAAAAGAACCCACAC  
 TGATTATGACACGCATACTCGGAGCTATGCTAACCAGCGTAG  
 CCCCAGATGTAAGCTTTGTTGCATGGGCGGCGATATAAA  
 ATGCAAGGTGCTGCTCAAAAAATCAGGCAAAGCCTCGCGCA  
 AAAAAGAAAGCACATCGTAGTCATGCTCATGCAGATAAA  
 GGCAGGTAAGCTCCGGAACCACCACAGAAAAAGACACCATT  
 TTTCTCTCAAACATGTCTGCGGGTTTCTGCATAAACACA  
 AAATAAAATAACAAAAAACATTTAAACATTAGAAGCCTGTCT  
 TACAACAGGAAAAACAACCCTTATAAGCATAAGACGG  
 ACTACGGCCATGCCGGCGTGACCGTAAAAAACTGGTCACC  
 GTGATTAAAAAGCACACCACGACAGCTCCTCGGTCATGTC  
 CGGAGTCATAATGTAAGACTCGGTAAACACATCAGGTTGATT  
 CATCGGTCAGTGCTAAAAAGCGACCGAAATAGCCCCGGG  
 GGAATACATACCCGCAGGCGTAGAGACAACATTACAGCCCC  
 CATAGGAGGTATAACAAAATTAATAGGAGAGAAAAACAC

ATAAACACCTGAAAAACCCTCCTGCCTAGGCAAAATAGCACC  
CTCCCGCTCCAGAACAAACATACAGCGCTTCACAGCGGC  
AGCCTAACAGTCAGCCTTACCAGTAAAAAAGAAAAACCTATTA  
AAAAAACACCACTCGACACGGCACCAGCTCAATCAGTC  
ACAGTGTAAGGAGGCAAGTGCAGAGCGAGTATATATAG  
GACTAAAAAATGACGTAACGGTTAAAGTCCACAAAAAAC  
ACCCAGAAAACCGCACGCGAACCTACGCCAGAAACGAAAG  
CAAAAAACCCACAACCTTCCTCAAATCGTCACTTCCGTT  
TTCCACGTTACGTAACCTTCCCATTTAAGAAAACTACAATTC  
CCAACACATACAAGTTACTCCGCCCTAAAACCTACGT  
CACCCGCCCCGTTCCACGCCCCGCGCCACGTCACAAACTC  
CACCCCTCATTATCATATTGGCTTCAATCCAAAATAAG  
GTATAT

66927-2661100